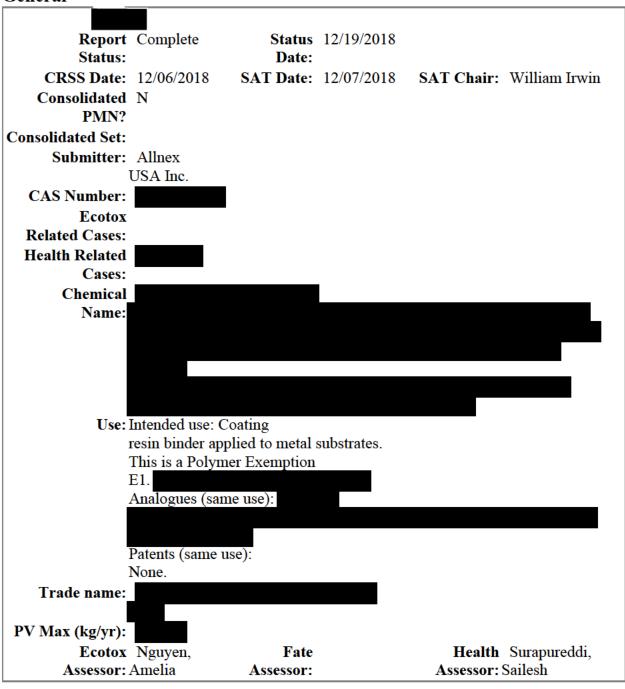
SAT Report for Case # P-19-0007

General



Physical Chemical Information

Log Kow:	(EST):		(EPI): Log Kow (EPI):	
Water Solubility:	Solubility	<0.000001	Water Solubility	
Vapor Pressure:	Pressure	<0.000001	VP (EPI):	
Weight: Percent 500: Melting Point (Measured):	State - Neat: Percent 1000: Melting Point (est):		MPD (EPI):	
Molecular	v	Solid (est.)		

SAT Concern

Ecotox Rating 1	Ecotox	
(1):	Rating	
	Comment	
	(1):	
Ecotox	Ecotox	
Rating (2):	Rating	
	Comment	
	(2):	
Health Rating 1-2	Health	
(1):	Rating	
	Comment	
	(1):	
Health Rating	Health	
(2):	Rating	
(=)*	Comment	
	(2):	

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1	1	

```
Exposure N
Based Review
(Health)?
Exposure Based N
Review
(Ecotox)?
SAT Irr, Devel
Keywords:
```

```
Fate P-19-0007
  Assessment FATE: MW =
   Summary: with \% < 500 and \% < 1000
             Solid
             S = Negl.
             VP
             < 1.0E-6 torr at 25 °C (E)
             BP > 400 \, ^{\circ}C \, (E)
             H < 1.00E-8
             (E)
             POTW removal (%) = 90 via sorption
             Time for complete ultimate
             aerobic biodeg > mo
             Sorption to soils/sediments = v.strong
             PBT
             Potential: P3B1
             FATE: Migration to ground water =
  Removal in 90
WWT/POTW
   (Overall):
```

Condition	Rating Values	Comment
	w/ Rating Description	
WWT/POTW	3	
Sorption:		
WWT/POTW	4	
Stripping:		
Biodegradation	4	
Removal:		
Biodegradation		
Destruction:		
Aerobic Biodeg	4	
Ult:		

Condition	Rating Values	Comment
	w/ Rating Description	
Aerobic Biodeg Prim:		
Anaerobic Biodeg Ult:	4	
Anaerobic Biodeg Prim:		
Hydrolysis (t1/2 at pH 7,25C) A:		
Hydrolysis (t1/2 at pH 7,25C) B:		
Sorption to Soils/Sediments:	1	
Migration to Ground Water:	1	
Photolysis A, Direct:		
Photolysis B, Indirect:		
Atmospheric Ox A, OH:		
Atmospheric Ox B, O3:		

Health

Assessment

Health Summary: Absorption of the parent molecule is expected

to be NIL all routes based on p-chem properties and unknown for the low molecular weight fractions. There is concern for irritation based on the SDS. There is low concern for developmental toxicity from the presence of low amounts of the

low amounts of th

Test Data Submitted

Test Data Submitted:

Ecotox Assessment

Test organism	Test	Test	Predicted	Measured	Comments
	Type	Endpoint			
Fish	96-h	LC50	*		
Daphnid	48-h	LC50	*		
Green Algae	96-h	EC50	*		
Fish	-	Chronic	*		
D 1 11		Value	*		
Daphnid	-	Chronic Value	ጥ		
Green Algae	-	Chronic Value	*		

Factors	Most Sensitive Endpoint	Assessment Factor	СоС	Comment
Acute	*			* = No
Acquatic:				effects at saturation for acute fish,
				daphnid, and green algae. Because
				hazards are not expected up to the
				water solubility limit, acute
				concentration of concern was not
				identified.
Chronic	*			* = No
Acquatic:				effects at saturation for acute fish,
				daphnid, and green algae. Because
				hazards are not expected up to the
				water solubility limit, chronic
				concentration of concern was not identified.

Ecotox Route of No releases to Exposure? water

Factors	Values	Comments
SARs:	Polyanionic	
	Polymers	
SAR Class:	Polymer-	
;	anionic-	
	-insoluble	
TSCA NCC	Polyanionic	
Category?	Polymers	
	(Momomers)	

Recommended Testing

Ecotox

Value Comments

Predictions are based on SARs for polyanionic polymers (insoluble); MW with % <500 and % <1000; solid (est.) with an unknown MP (P); S = Negligible (P); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L.

Ecotox

Factors Comments

Environmental Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risk because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA determined environmental hazard for this new chemical substance based on SAR predictions for anionic polymers (special class within ECOSAR v.2.0). This substance falls within the TSCA New Chemicals Category of Polyanionic Polymers (Monomers). Acute and chronic toxicity values estimated for fish, aquatic invertebrates, and algae are all no effects at saturation.. These toxicity values indicate that the new chemical substance is expected to have low environmental hazard. Because hazards are not expected up to the water solubility limit, acute and chronic concentrations of concern are not identified.

Environmental Risk: Risks to the environment were evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Risks to the environment were not identified based on low hazard.